

a second accelerator electrode including a conductive cylindrical element smaller in diameter than the neck, which is connected to an external potential via an isolated high voltage stem pin, and

a focus electrode connected to a focus potential through a low voltage stem pin; and

a second lens comprising:

the focus electrode, and

a final accelerator electrode comprising a continuous internal conductive coating on the neck and the funnel, wherein the final accelerator electrode is connected to anode potential through an anode button in the neck.

20. (New) The einzel focusing lens of claim 13 wherein the external potential is an anode potential.
21. (New) The einzel focusing lens of claim 14 wherein the anode potential is less than or equal to twelve kilovolts.